

# Borochi Hybrid Inverter



BHW-10 | BHW-12 | BHW-15



Multifunctional Operating Modes



High Efficiency Up to 98%



Flexible Inputs with Expansion Options



Intelligent Monitoring

| Model  | BHW-10   | BHW-12                           | BHW-15            |
|--|--|----------------------------------|-------------------|
| <b>PV Input</b>                                |  |                                  |                   |
| Recommended Max. PV Input Power [Wp]           | 13000  | 15600                            | 18750             |
| Max. Input Voltage [V]                         |  | 1000                             |                   |
| MPPT Voltage Range [V]                         |  | 180~950                          |                   |
| Rated Voltage [V]                              |  | 600                              |                   |
| Start-up Voltage [V]                           |  | 200                              |                   |
| No. of MPP-Trackers                            |  | 2                                |                   |
| No. of PV Strings per MPPT                     |  | 2/1                              |                   |
| Max. Input Current per MPPT [A]                |  | 30/15                            |                   |
| Max. Short-Circuit Current per MPPT [A]        |  | 36/18                            |                   |
| <b>AC Output</b>                               |  |                                  |                   |
| Rated Output Power [W]                         | 10000  | 12000                            | 15000             |
| Rated Output Current [A]                       | 14.5   | 17.4                             | 21.7              |
| Max. Output Current [A]                        | 16   | 19                               | 23.8              |
| Max. Apparent Output Power [VA]                | 11000  | 13200                            | 16500             |
| Rated Output Voltage [V]                       |  | 220/380;230/400                  |                   |
| Rated Grid Frequency [Hz]                      |  | 50/60                            |                   |
| Power Factor [cosφ]                            |  | 1/0.8( leading)~0.8(lagging)     |                   |
| THDi (@Rated Output Power )                    |  | <3%                              |                   |
| <b>AC Input (Grid)</b>                         |  |                                  |                   |
| Max. Apparent Input Power [VA]                 | 11000  | 13200                            | 16500             |
| Max. Input Current [A]                         | 15.9   | 19.1                             | 23.8              |
| Rated Output Voltage [V]                       |  | 220/380;230/400                  |                   |
| Rated Grid Frequency [Hz]                      |  | 50/60                            |                   |
| <b>Battery</b>                                 |  |                                  |                   |
| Battery Module Type                            |  | Lithium Iron Phosphate (LiFePO4) |                   |
| Battery Voltage Range [V]                      |  | 150-600                          |                   |
| Maximum Charge/Discharge Current [A]           |  | 25                               |                   |
| Battery Communication                          |  | CAN                              |                   |
| <b>AC Output (Off-Grid )</b>                   |  |                                  |                   |
| Rated Output Power [W]                         | 10000  | 12000                            | 15000             |
| Rated Output Voltage[V]                        |  | 220/380;230/400                  |                   |
| Rated Output Frequency [Hz]                    |  | 50/60                            |                   |
| Rated Output Current[A]                        | 14.5   | 17.4                             | 21.7              |
| THDi (Rated Output Power)                      |  | <3%                              |                   |
| Switch Time [ms]                               |  | <10                              |                   |
| Peak Apparent Power , Duration [VA,s]          | 15000,30   | 18000,30                         | 22500,30          |
| <b>Efficiency</b>                              |  |                                  |                   |
| Max. Efficiency                                |  | 98%                              |                   |
| Euro Efficiency                                |  | 97.3%                            |                   |
| Charging/Discharging Efficiency of the Battery |  | 98.5%@Charge/97.0%@Discharge     |                   |
| <b>Protection</b>                              |  |                                  |                   |
| DC-Schalter                                    |  | Integrated                       |                   |
| Insulation Resistance Detection                |  | Integrated                       |                   |
| Input Reverse Polarity Protection              |  | Integrated                       |                   |
| Anti-island Protection                         |  | Integrated                       |                   |
| Residual Current Monitoring                    |  | Integrated                       |                   |
| Overtemperature Protection                     |  | Integrated                       |                   |
| DC Surge Protection                            |  | Integrated (Type II)             |                   |
| AC Surge Protection                            |  | Integrated (Type II)             |                   |
| <b>General Data</b>                            |  |                                  |                   |
| Dimensions (W×H×D) [mm]                        |  | 498 x 563 x 200                  |                   |
| Weight [kg]                                    | 28   | 28                               | 29                |
| Display  |  | LCD / WEB / APP                  |                   |
| Communication                                  |  | WIFI / RS485 / LAN               |                   |
| Operating Temperature Range [°C]               |  | -25~60                           |                   |
| Relative Humidity                              |  | 0%~100%, Non-condensing          |                   |
| Operation Altitude[m]                          |  | ≤4,000 (Derating above 2,000)    |                   |
| Self Consumption (night)[W]                    |  | <15                              |                   |
| <b>Topology</b>                                |  | Transformerless                  |                   |
| Cooling Concept                                | Natural Convection   | Natural Convection               | Smart fan-cooling |
| Ingress Protection (IP) Rating                 |  | IP66                             |                   |
| Warranty                                       |  | 10 Years                         |                   |
| Certification                                  | VDE 4105; IEC 62109-1/2;IEC 62477-1;IEC 61000-6-1/2/3/4;CE |                                  |                   |

\* The technical specifications may be changed without prior notice due to product improvements.

**Borochi Climate Solutions GmbH**

Adresse: Alt-Moabit 2, 10557 Berlin, Germany

E-Mail: sales@borochi.de

Web: <https://borochi.de/>

